

DATA SHEET

Single Phase Induction Motor - Squirrel Cage



Customer	:			
Product line	: Single-Phase	Product code : 13988237		
Frame	: 56HC	Cooling method : IC01 - ODP		
Insulation class	: F	Mounting : F-1		
Duty cycle	: Cont.(S1)	Rotation ¹ : Both (CW and CCW)		
Ambient temperature	: -20°C to +40°C	Starting method : Direct On Line		
Altitude	: 1000 m.a.s.l.	Approx. weight ³ : 18.3 kg		
Design	: L	Moment of inertia (J) : 0.0032 kgm ²		
Output [HP]		2		
Poles		2		
Frequency [Hz]		60		
Rated voltage [V]		115/208-230		
Rated current [A]		21.8/12.1-10.9		
L. R. Amperes [A]		170/94.4-85.0		
LRC [A]		7.8x(Code J)		
No load current [A]		12.6/5.43-6.30		
Rated speed [RPM]		3490		
Slip [%]		3.06		
Rated torque [kgfm]		0.416		
Locked rotor torque [%]		250		
Breakdown torque [%]		260		
Service factor				
Temperature rise		80 K		
Locked rotor time		10s (cold) 6s (hot)		
Noise level ²		58.0 dB(A)		
Efficiency (%)	25%			
	50%	69.0		
	75%	72.0		
	100%	75.0		
Power Factor	25%			
	50%	0.60		
	75%	0.72		
	100%	0.80		
Bearing type	: <u>Drive end</u> 6204 ZZ <u>Non drive end</u> 6202 ZZ	Foundation loads		
Sealing	: Without Bearing Seal Without Bearing Seal	Max. traction : 25 kgf		
Lubrication interval	: - -	Max. compression : 43 kgf		
Lubricant amount	: - -			
Lubricant type	: Mobil Polyrex EM			
Notes				
<p>This revision replaces and cancel the previous one, which must be eliminated.</p> <p>(1) Looking the motor from the shaft end.</p> <p>(2) Measured at 1m and with tolerance of +3dB(A).</p> <p>(3) Approximate weight subject to changes after manufacturing process.</p> <p>(4) At 100% of full load.</p>		<p>These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.</p>		
Rev.	Changes Summary	Performed	Checked	Date
Performed by				
Checked by			Page	Revision
Date	11/05/2022		1 / 2	

LOAD PERFORMANCE CURVE

Single Phase Induction Motor - Squirrel Cage

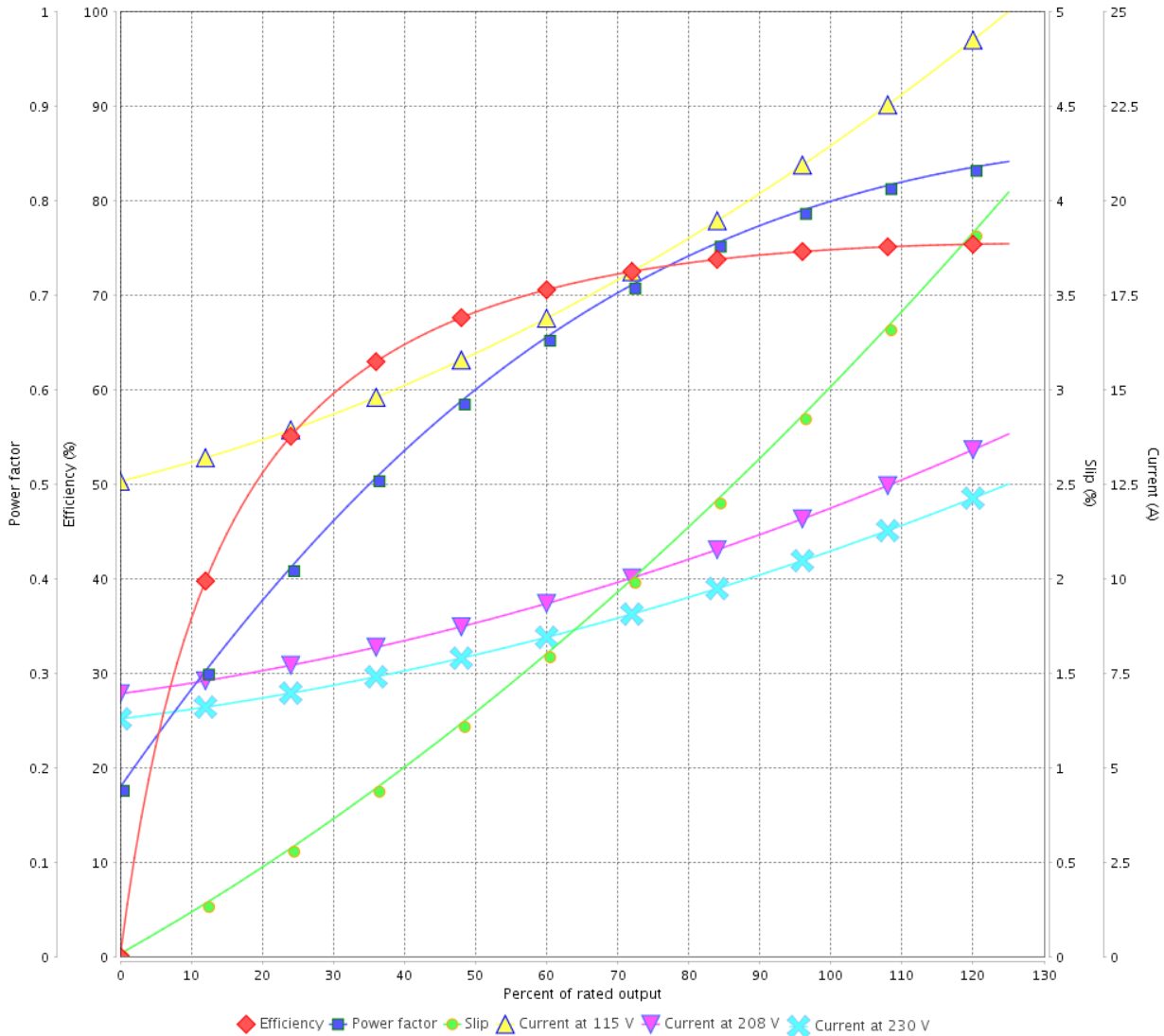


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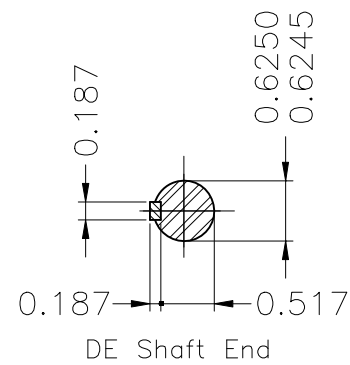
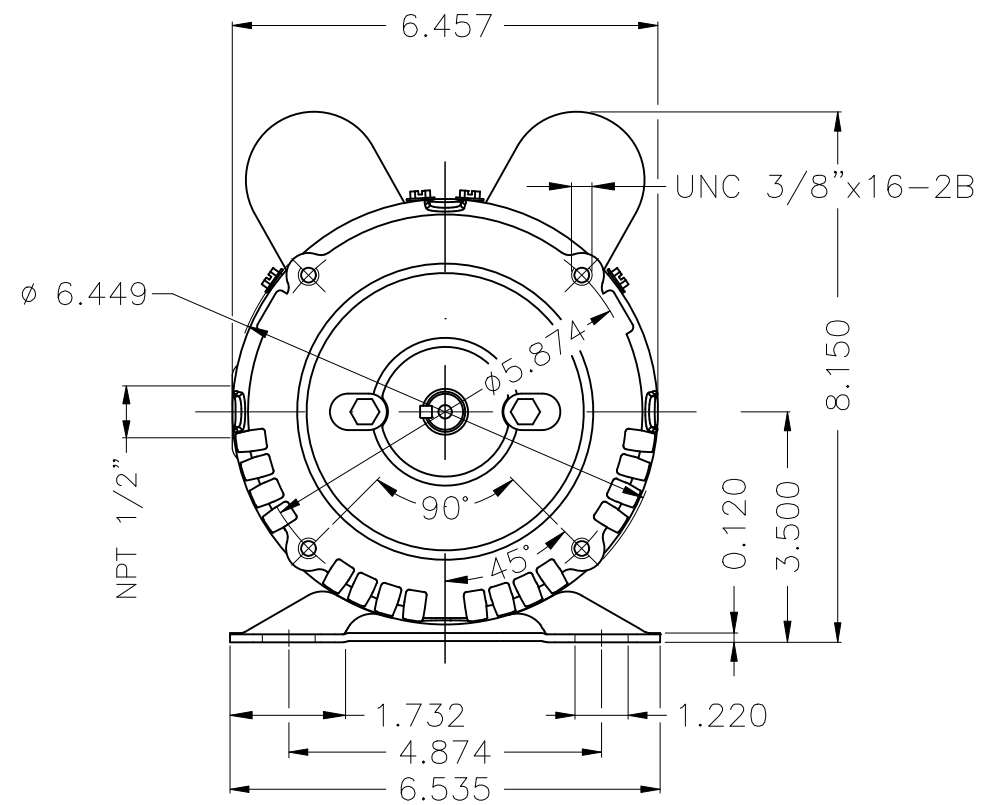


Performance : 115/208-230 V 60 Hz 2P

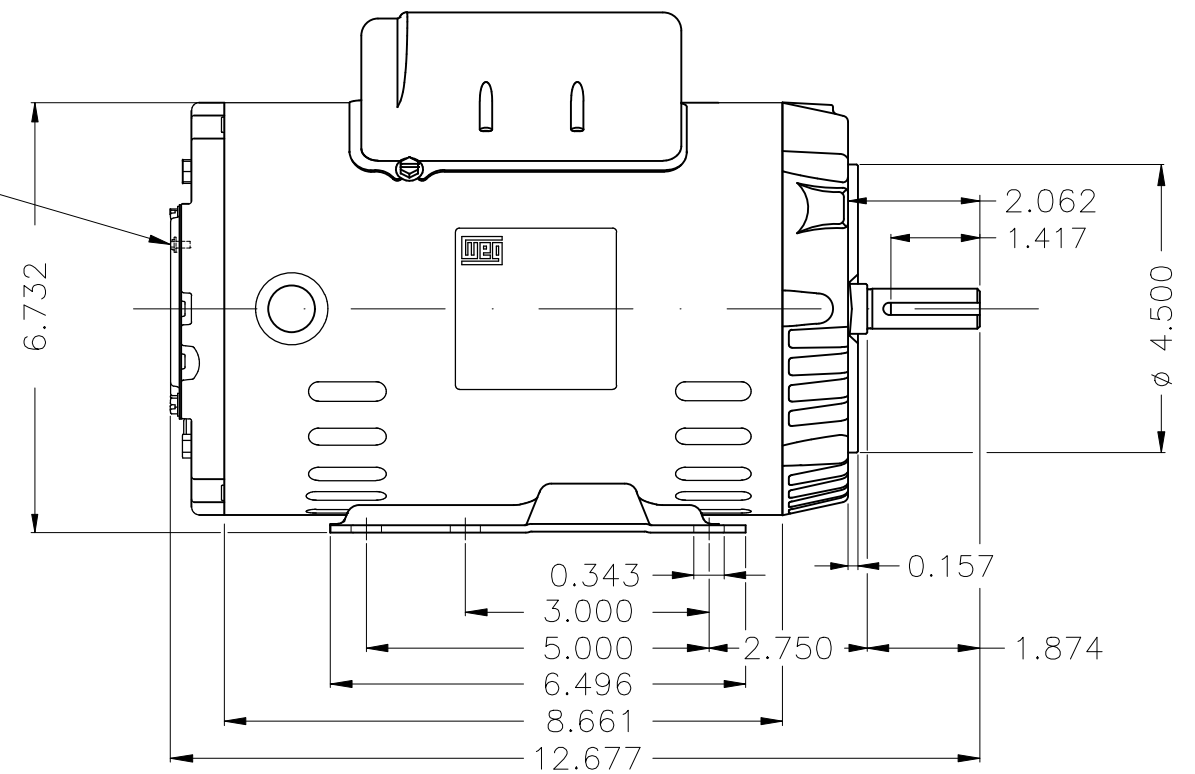
Rated current : 21.8/12.1-10.9 A
 LRC : 7.8
 Rated torque : 0.416 kgfm
 Locked rotor torque : 250 %
 Breakdown torque : 260 %
 Rated speed : 3490 rpm

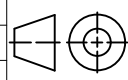
Moment of inertia (J) : 0.0032 kgm²
 Duty cycle : Cont.(S1)
 Insulation class : F
 Service factor :
 Temperature rise : 80 K
 Design : L

Rev.	Changes Summary	Performed	Checked	Date
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Grounding



Color Munsell N 1 matte black										
Painting plan 207N										
Mounting B34D										
					HYBRISUSER	00				
ECM	LOC	SUMMARY OF MODIFICATIONS			EXECUTED	CHECKED	RELEASED	DATE	VER	
EXECUTED	HYBRISUSER	 SINGLE PH. MOTOR ROLLED STEEL FRAME 56HC IP21 ODP			PREVIEW					
CHECKED					WDD		00			
RELEASED					SHEET		1 / 1			
REL. DATE		WMO	Jaragua do Sul	Product Engineering						

2 HP 02 Poles 60 Hz

A